## CLAIMS

1. A flexible pipe (1) for the transport of fluid in the field of offshore oil production, of the type comprising at least, from the inside outward, a pressure sheath (2), a pressure vault comprising at least one pressure-resistant armor (3), an intermediate sheath and at least one tensile armor ply (5, 6), characterized in that it includes, in the internal annular space (30), formed between the pressure sheath (2) and the intermediate sheath (4), a draining layer (13) that allows the gases present in this annular space (30) to be drained away and in that said draining layer is formed by the short-pitch winding of at least one elongate element (12, 14, 18, 19) that includes transverse drainage spaces or recesses (15) that allow the gases to drain away between the successive turns of the winding in a direction approximately transverse to said turns.

2. The flexible tubular pipe (1) as claimed in claim 1, characterized in that the elongate element is a profiled wire (12).

3. The flexible tubular pipe (1) as claimed in claim 1, characterized in that the elongate element forming the draining layer is made from a preformed metal strip.

4. The flexible tubular pipe (1) as claimed in any one of the preceding claims, characterized in that the draining layer (13) is formed by a hoop surrounding the pressure-resistant armor (3).

5. The flexible tubular pipe (1) as claimed in any one of the preceding claims, characterized in that the lay angle of the elongate element of the draining layer is greater than 70°.

6. The flexible tubular pipe (1) as claimed in any one of the preceding claims, characterized in that the elongate element (12) forming the draining layer (13) includes transverse recesses (15) distributed longitudinally so as to be at least partly aligned with another recess in the element once it has been wound, in order to form transverse drainage channels (7).

7. The flexible tubular pipe (1) as claimed in any one of the preceding claims, characterized in that the elongate element has, in its profile, a longitudinal space so as to allow the gas to flow within any one turn.

8. The flexible tubular pipe (1) as claimed in any one of the preceding claims, characterized in that the elongate element forming the draining layer (13) is made entirely or partly of a polymer material.

9. The flexible tubular pipe (1) as claimed in claim 1, characterized in that the draining layer is formed by the winding of two different elongate elements (18, 19).